

## Bibliographic data

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Toothbrush.

The invention is relative with a type of brush ensuring a perfect hygiene of the teeth, by a vertical brushing of all their surface and their interstices.

The brush (. 1) is actuated by the fact 'of the brushing of the teeth. The mechanism is composed of a small movable cylindrical brush, with rotary motions C pulled by a roller has rolling on the face of the teeth (. 2,3,4).

The junction between the roller has and the cylindrical brush C laid out perpendicularly of the one with the other, is carried out by helical gears, worm (. 5), whose notches are approximately to 75 [deg], E, F, in order to allow a flexible drive (. 5).

The mechanical unit is located in a cavity envisaged G in the body of brush O at the site of the piles by comparing a brush of a normal type; single a row of piles will be established on the edges of cavity N.

The roller has out of polyethylene, enough flexible on the upper part where are located juxtaposed slightly concave facets H following the generator is mounted on an axis H cast of the same material making body (. 5) with this one.

Helical notches F also molded in the material are located at the center in a perimetric recess partially marrying in lower part the cylindrical ranging/helicoid - in its central portion E which composes the movable brush K.

This one is longitudinally laid out embedded freely D in basins. N at the ends of the cavity D, these basins, supports of axis B, D like those of the roller, are provided of a slit L widened on the

upper part, in order to allow an easy placement (. 6).

On each side of the helicoid surface J of the stem, poilds I are established circularly on entire surface remaining C.

At the joint p between the body of brush and the handle, an articulation on axis, with an enough strong embedded flat spring in the casting of the material used for manufacture can be envisaged, to facilitate the steepness of the brush on the teeth.

One can also add following the cases, a folding handle S folding back itself on the piles of the brush to protect it, in the event of brush of voyage, in camp-site for example. This hinge R is firmly attached by sliding or a notch of locking of a type running when the handle S is deployed. The model of brush with fixed handle, without articulation nor spring is also envisaged, like all models having a movement of vertical brushing. Finally the invention can be preferably applied with various formats of brushes.

SUMMARY New characterized toothbrush by a rotary motion. A roller involves a small cylindrical brush deposited perpendicularly with the conventional brush. Ce\* mechanism is located in a cavity envisaged in the body of a brush of normal type. This brush ensures a perfect hygiene, by the fact of the vertical brushing of entire surface of the teeth and their interstices.

FIG. 1

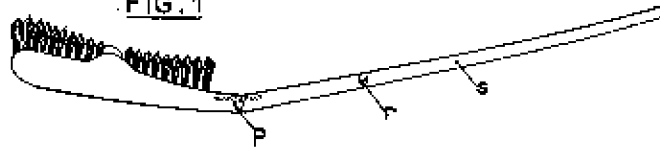


FIG. 2

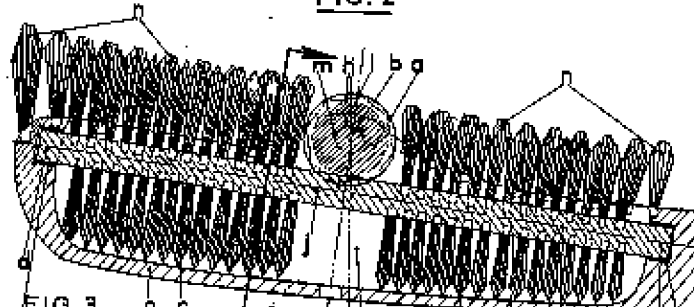


FIG. 3

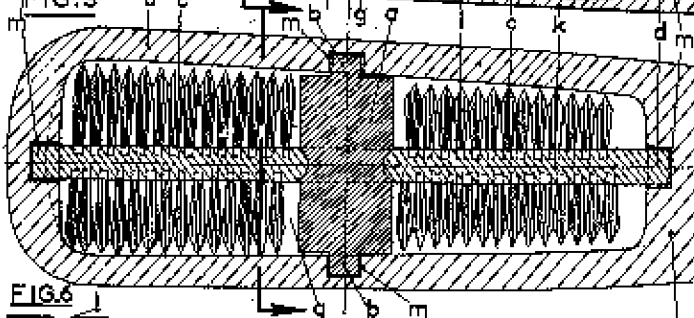


FIG. 4

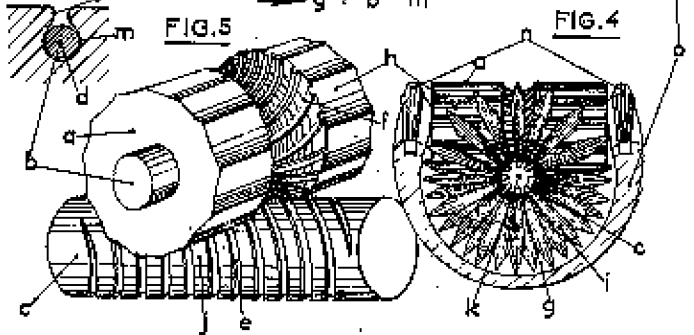


FIG. 5

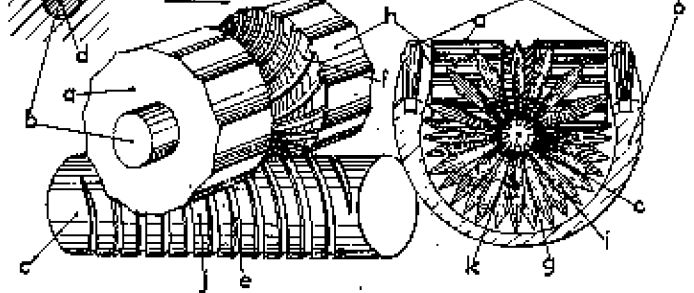


FIG. 6

